

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS CERTIFICATE USA/0722/S-96, REVISION 0

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

- 1. <u>Source Identification</u> QSA Global, Inc. Model X0779 Source Assembly (Manufactured on or after July 5, 1988).
- 2. single Source Description Cylindrical encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions of the single encapsulation are 3.0 mm (0.12 in.) in diameter and 26.3 mm (1.04 in.) in length. Nominal wall thickness is 0.15 mm (0.006 in.). The single encapsulation must be installed inside the rectangular shutter housing secured with screws welded in-place. Approximate outside dimensions of the shutter housing are 22.0 mm (0.87 in.) in height, 65.0 mm (2.56 in.) in width, and 45.0 mm (1.77 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing Nos. RBA62007, Rev. A and RBA61601, Rev. A.
- 3. <u>Radioactive Contents</u> No more than 7.4 GBq (200.0 mCi) of Americium-241. The Am-241 is in the form of an oxide incorporated into a ceramic enamel.
- 4. Quality Assurance Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
- 5. Expiration Date This certificate expires on March 31, 2011.

<sup>&</sup>lt;sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

## CERTIFICATE USA/0722/S-96, REVISION 0

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the November 14, 2005 petition by QSA Global, Inc., Burlington, MA and in consideration of other information on file in this Office.

Certified By:

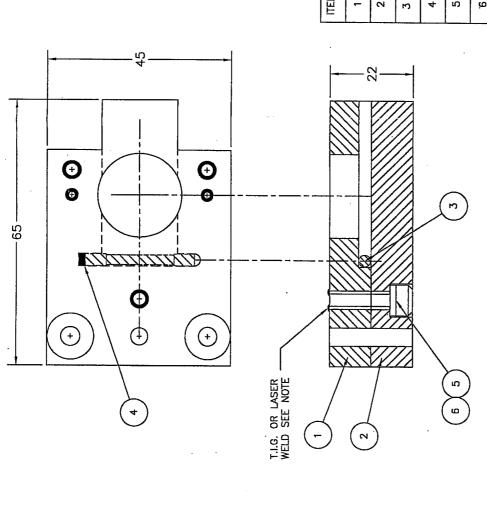
Robert A. McGuire

Associate Administrator for Hazardous Materials Safety

Revision 0 - Original issue.

Mar 16 2006

(DATE)



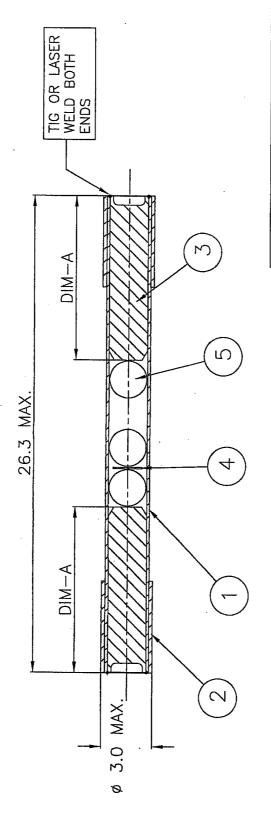
тем #	DESCRIPTION	QTY.
1	SHUTTER UPPER SECTION, STAINLESS STEEL	-
2	SHUTTER LOWER SECTION, STAINLESS STEEL	-
3	X1122 SOURCE CAPSULE, STAINLESS STEEL	-
4	ANTI-RATTLE SPRING, STAINLESS STEEL	-
ល	M4 x 14 SCREW, STEEL	ы
9	M4 SPRING WASHER, STEEL	-

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2	7

2) TOLERANCE:  $\begin{array}{cccc} x & \pm & 2 \\ x & \times & 2 \end{array}$ X.X \pi 0.2

NOTE: WELD SCREW TO BODY IN THREE POSITIONS AND AFTER INSERTION OF M4x14 SCREWS.

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	DESCRIPTIVE	DRAWING		MBLY X0779	RRA62007		SHEET 1 OF 1
	A TECHNOLOGY)	OEA ANDRIH AVE RITERINGTON UA CHRON	מיניי טובי המוקומים וויים	SHUTTER ASSEMBLY X0779	DWG. NO. RRA	3	SCALE: NTS
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TYPE	X1122/1	X1122/2

ITEM #	DESCRIPTION	QTY.
	BODY, STAINLESS STEEL	<del></del>
2	SLEEVE, STAINLESS STEEL	2
3	PLUG, STAINLESS STEEL	2
4	CERAMIC FIBER PACKING	A/R
5	Am241 GLASS BEADS	A/R

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7	

NOTE:

2) SLEEVES, ITEM 2, TO BE ATTACHED TO BODY , ITEM 1, WITH EPOXY RESIN.

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